



uniden®

UBC-RH96

**Remote Head unit for the
UBCD396T & UBCD996T
Digital Scanners**

OWNER'S MANUAL



2





Table of Contents

Introduction.....	5
Mounting the UBC-RH96.....	7
Using the Mounting Bracket.....	7
Using Hook and Loop Material	9
UBC-RH96 Connections.....	10
Connecting Cables	11
Remote Head and Scanner Power.....	11
Control Cable.....	11
Data Port Cable — Firmware Updates	12
Control Configuration Guides	13
The UBCD396T Key Configuration.....	14
The UBCD996T Key Configuration.....	15
Operation.....	16
Setting the UBC-RH96 Backlight.....	17

Configuration — Menu Mode.....	18
Setting the UBC-RH96 LCD Contrast.....	18
Setting Mobile Options	19
Mobile Default Key Assigment	19
Setting Handy Options	21
Default Handy Option Key Assigment	21
Setting the Function Mode	22
Setting Hold Timer.....	22
Setting Auto Release	23
Miscellaneous.....	23
Volume Settings - For Handy Scanner.....	23
Control Limitations.....	24
Serial Operation Precautions	24





Initialize Memory (Reset)	25
Using the Cable Clamp	25

Specifications	26
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One Year Limited Warranty	26
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Introduction

Your UBC-RH96 Remote Head helps you get more out of your Uniden UBCD396T or UBCD996T scanner.

The UBC-RH96 provides the following features:

- It controls all the functions of your Uniden mobile or handy scanner (with the exception of the scanner's power control.)
- It gives you three shortcut keys that you can assign to your scanner's most often used operations.
- It serves as a large LCD with your handy scanner.
- It recognizes the scanner baud rate for reliable

communications between units.

- Its Volume and Squelch controls emulate those on the scanner.
- It provides a large, easy to read LCD display with adjustable backligh and contrast levels.
- It emulates your mobile scanner's Close Call and Alert LED signals.

Please read the entire manual to familiarize yourself with installation and operation for maximum enjoyment.



Included with your UBC-RH96

Your Remote Head is supplied with essential components and accessories to get you operational.

Supplied are:

- The UBC-RH96 Remote Head unit.
- A steel mounting bracket with attachment washers factory installed.
- Mounting hardware (screws and washers) to attach the bracket.
- Threaded knobs to allow mounting the Remote Head quickly to the bracket.

- Remote connection cable, 3m in length.
- A correctly polarized vehicle DC adapter to let you connect the Remote Head to a convenience outlet in your vehicle that provides 12-13.8 VDC.
- This Owner's Manual.
- A set of pocket-sized Quick Reference Configuration cards for convenient setup and usage.
- A Self Adhesive Cable Clamp

If any of the above items are missing or damaged, immediately contact your place of purchase.



Mounting the UBC-RH96

The following two mounting methods are suggestions used by most. Depending upon your individual situation, you may decide on a different approach.

Using the Mounting Bracket

For most vehicles, the supplied bracket will be the easiest method of mounting.

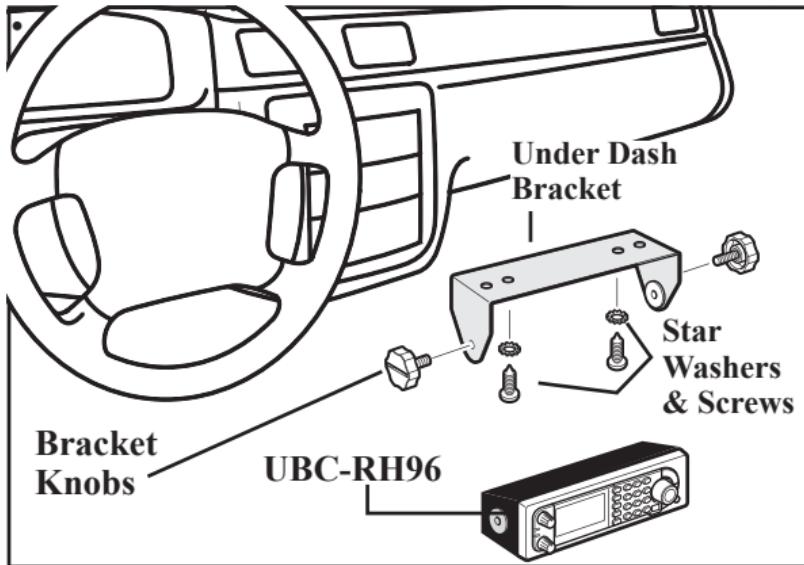
With the bracket removed from the Remote Head, use the holes in the bracket as a template to initially mark the location you plan to use in your vehicle. Be absolutely certain of what might be behind the mounting surface before making any holes, be it above, or below,

or in front of your dash, armrest console, or other location. If you drill carelessly, expensive damage can result. If in doubt, consult your vehicle dealer's service department or a qualified professional installer.

Important: AVOID AIRBAG DEPLOYMENT

ZONES. Ignoring this installation concern may result in bodily harm and the inability of the airbag to perform properly.

Be sure to select a mounting location so that when you route power and remote cables they do not interfere with any existing cables or other controls.



1. Using the supplied screws or other suitable hardware, secure the bracket.
2. Insert the UBC-RH96 and insert the bracket knobs to lock the Remote Head in position.
3. Attach the provided Cigarette Lighter Power Cord to the rear power jack marked **DC IN 13.8V**. Then plug the adapter end into a dash mounted 12V DC socket.
4. Insert the 3-Conductor Mini-Plug of the supplied ten-foot cable in the **REMOTE** jack on the back of the scanner.



5. Route the Remote Cable through the Slotted Guide (3) so it lies flat. Route the Power Cord so it does not interfere with any other wires.

Using Hook and Loop Material

The rear of the unit, when all connectors and cables are properly routed, is flat. This permits using hook and loop material (not supplied) that has a heavy-duty peel and stick adhesive on one side. This material is generally available from electronic supply stores and hardware stores.

Do not apply the tape to the rear until all cables are installed and routed correctly.

Do not cover the slotted guide with the tape.

Follow the directions supplied with the hook and loop material. Locate a suitable spot on the dash, console, or other area. If you use the Remote Head in another place such as a radio room, using tape lets you quickly mount or remove the Head as desired.

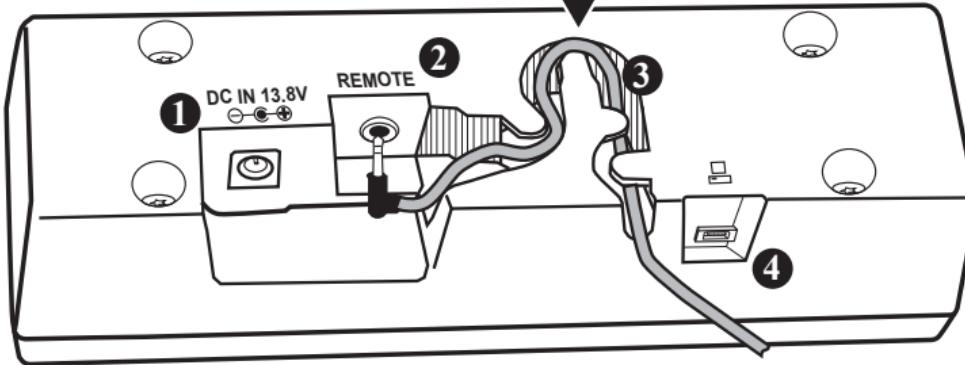




UBC-RH96 Connections

Note: Connect the Remote Cable and route it through the cable channel as shown. Then connect the DC Power Cable and route it through the channel.

Always route both cables through the channel.



① DC Power Input Jack

② To Remote Cable
Mini-Plug

③ Cable Routing Guides

④ Data Port (for firm-
ware updates)



Connecting Cables

There are three cables that you can connect to the UBC-RH96.

- The DC power cable
- The Remote Control cable
- The Data Port cable (not supplied with UBC-RH96)

Remote Head and Scanner Power

To provide power to the Remote Head, insert the barrel of the cigarette lighter adapter into the jack in the back of the unit marked **DC IN 13.8V**. Insert the other end in a convenient socket on the dash of your vehicle.

To connect a power lead permanently, obtain a barrel connector 5.5 mm diameter, with a center pin 2 mm

diameter and wire it with the center positive using at least 18 gauge wire to an extra fuse block terminal of your vehicle.

The Remote Head cannot turn power to the scanner off or on. Therefore, consider connecting the power lead of the scanner to a terminal on your vehicle that is turned off when you turn off the ignition key.

Control Cable

The 3m supplied Control Cable has a stereo mini-plug on one end and a scanner serial connector on the other. Insert the mini-plug into the **REMOTE** jack on the rear of the Remote Head. Route the cable through the



guides to keep the cable correctly positioned. Then, route the remainder of the cable toward the location of your target scanner. When doing so, be sure to avoid sharp metal edges of your vehicle's body, or other possible hazards. Be sure the cable does not interfere with controls, operation of the vehicle, or passenger safety. Insert the cable's special connector in the front port of the UBCD996T mobile scanner, or the side port of the UBCD396T handy scanner.

Data Port Cable — Firmware Updates

The Remote Head has a data port (see *UBC-RH96 Connections*) so you can update the firmware using the data transfer cable provided with your scanner. Con-

nect the data transfer cable to this port on the bottom of the Remote Head. Connect the other end to the DB9 serial port on your PC. This is the only purpose of this connection.

Important:

For best operation, be sure your scanner always has the latest firmware. Visit www.uniden.com.au (Australian model) or www.uniden.co.nz (New Zealand model) to verify that your scanner has the most up-to-date firmware.





Control Configuration Guides

The UBC-RH96 lets you remotely operate the following scanners:

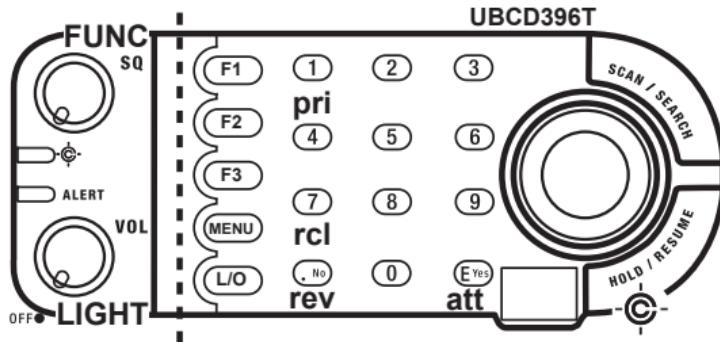
- UBCD996T Mobile Scanner
- UBCD396T Handy Scanner

Even though the scanners have different controls and functions, when you connect the UBC-RH96 to the scanner, the Remote Head automatically changes the functionality of its controls to match the operation of the target scanner.

Important: If you have more than one scanner, be sure to turn off power to the UBC-RH96 before switching target scanners.

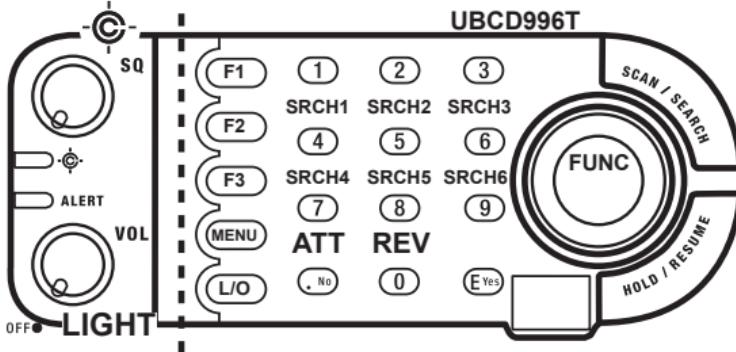
To assist you to better understand each of these changes, a set of pocket-sized Quick Reference Cards are provided. The diagrams on the next pages replicate the card diagrams.





F1=_____ F2=_____ F3=_____

The UBCD396T Key Configuration



F1=_____ F2=_____ F3=_____

The UBCD996T Key Configuration



Operation

Apply power to your target scanner and set its Baud Rate to the highest setting. Make sure that the Remote Control cable is properly connected, and rotate the **VOL** control clockwise past **OFF** until it clicks.

The LCD displays the following screens (your version number may be different than the screen shown here):

UBC-RH96

Press MENU Key
for Config.

Uniden Bearcat
UBC-RH96

Version 1.00.00

If you have not connected a target scanner, you see the screen below. If the UBC-RH96 remains on while you turn on the scanner, this display is automatically replaced with the scanner's initial display.

UBC-RH96

Scanner
Unconnected





When you turn the Remote Head off, you see the screen to the right which reminds you that power is still applied to the target scanner.

Powering down
the remote head
does not turn
off the Scanner

Setting the UBC-RH96 Backlight

To adjust the backlight brightness level on the Remote Head, repeatedly press the **VOL** control. The display cycles through available backlight brightness levels, including off. Stop when you reach the desired level.

Brightness Auto-Adjust (mobile scanners only)

When you connect a mobile scanner, the Remote Head automatically adjusts its backlight brightness level to match the brightness level of the target mobile scanner. If you change the brightness level on either the Remote Head or the target scanner, the level changes on both devices at the same time. (This function is not available on Handy Scanners.)

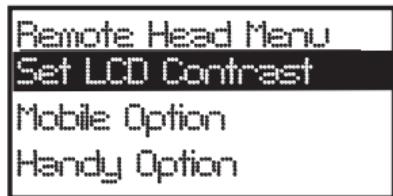




Configuration — Menu Mode

Once you have the units on, press [MENU] to enter the Configuration Settings Options. You can skip the opening screens by holding [MENU] while turning on power. You see the Remote Head Menu screen.

- To select an item on the screen, rotate the **FUNC** knob to scroll to the item.
- To make a choice, press [**E/Yes**] or the rotary **FUNC** knob.
- To step back to a previous menu, press [MENU].



- To exit from the Menu Mode, press [**SCAN**], [**HOLD**], or [**L/O**].
- To re-enter the Menu Mode, turn the Remote head off then on while holding in [MENU].

Setting the UBC-RH96 LCD Contrast

1. Rotate the rotary control to **Set LCD Contrast** then press the knob or [**E/Yes**].
2. Rotate the knob from **Contrast 1** through **Contrast 15**. The LCD contrast changes with each level. The default is level 8.
3. When you reach the desired level, press the knob or [**E/Yes**] again to make your selection.



Setting Mobile Options

1. Scroll to highlight **Mobile Option**, then press the rotary knob.
2. The screen shows **Set Key Assign**. Press the rotary knob again.
3. Scroll to the desired key (**F1 Key**, **F2 Key**, or **F3 Key**) and press the rotary knob to select it.
4. For each F Key, you can select a function from the Select Action menu screen.



The Default selection associates the F Keys on the Remote Head exactly the same as the corresponding F Key on the target mobile scanner.

Mobile Default Key Assignment

Key	ORIGINAL Key Operation
	UBCD996T
[F1]	[PRI]
[F2]	[SRVC]
[F3]	[GPS]



The Default Option table only applies to the UBCD996T. The following list applies to all two scanners (mobile and handy type) for F1, F2, or F3.

F1, F2, F3 Key	Function
F+Menu Key	[FUNC]+[MENU]
F+L/O Key	[FUNC]+[L/O]
Scan Key	[Scan]
Hold Key	[Hold]
Service Menu	Service Search Range Menu
Goto Custom	Custom Search Mode
Goto CC Only	Close Call Only Mode
Goto Tone-Out	Tone Out Standby Mode
CC Band Menu	Close Call Band Setting Menu

Settings Menu Settings Menu
Brdst Scrn Menu Broadcast Screen Band Menu
Search L/O Menu Review L/O List

Details about each of the operations of the F keys listed above can be found in the respective Owner's Manual for the mobile or handy scanners.





Setting Handy Options

1. Scroll to highlight **Handy Option**, then press the rotary knob.
2. The screen shows **Set Key Assign**. Press the rotary knob again.
3. Scroll to the desired key (**F1 Key**, **F2 Key**, or **F3 Key**) and press the rotary knob to select it.
4. For each F Key, select a function from the Select Action menu screen.

The Default selection associates the F Keys on the Remote Head exactly the same as the corresponding F Key on a Mobile scanner or a function on a Handy scanner.

Default Handy Option Key Assignment

Key	ORIGINAL Key Operation
	UBCD396T
[F1]	Custom Search
[F2]	CC Only
[F3]	Tone-Out

F Key column applies to the UBC-RH96 F keys.



Setting the Function Mode

If you scroll to the Handy Option menu, you can highlight *Set Func Mode*.

Select this to choose between *Set Hold Timer* and *Set Auto Release*.

Setting Hold Timer

When you select this option, you can scroll through and select from five settings. The setting determines how long the knob acting as the **FUNC** control is enabled each time you press it if you do nothing else.

The five settings are:

Off: Function mode is continuously enabled only while pressing the Control or SQ knob.

3 sec: Function mode is enabled for 3 seconds after releasing the Control or SQ knob.

5 sec: Function mode is enabled for 5 seconds after releasing the Control or SQ knob.

10 sec: Function mode is enabled for 10 seconds after releasing the Control or SQ knob.

Infinite: Function mode is enabled until the Control or SQ knob is pressed again (default).



Setting Auto Release

Choose this option to set the Function Auto Release to On or Off.

Turning the Auto-Release on lets you press any key to exit the Function mode.

Turning the Auto-Release off (the default setting) means you can only press the Function key to exit Function mode. No other key has any effect.

Miscellaneous

Volume Settings - For Handy Scanner

While it is possible to configure the UBC-RH96 rotary **FUNC** control as your **VOL** control, we suggest not doing so. The **VOL** control still functions as a volume control. If the **FUNC** control is configured as volume, it is possible to have a situation that a very slight movement of the **VOL** control results in a sudden and loud increase in your audio. It is best to configure the **VOL** control as volume in all cases.



Control Limitations

There are some operations that cannot be performed using the UBC-RH96.

Operation

- Power control
- Wired and On-Air Clone
- Upside Down Display
- Backlight Scanner Control
- Key Lock Operation
- No Close Call & Alert LED

Scanner Type

- All
- All
- Mobile
- Handy
- Handy
- Handy

Serial Operation Precautions

The UBCD996T has a 9-pin serial connection in the back designed for use with serial operations in addition to the special serial jack on the front.

Other than connecting a GPS, the front and the back cannot be used or connected at the same time when the UBC-RH96 is in use.

For example, if you connect a 9-pin serial cable to your PC to use the UASD programming software, disconnect the UBC-RH96 front cable first.





Initialize Memory (Reset)

To reset the UBC-RH96 to factory default settings, follow the sequence below. Note that once done, there is no undo and all programmed keys are reset.

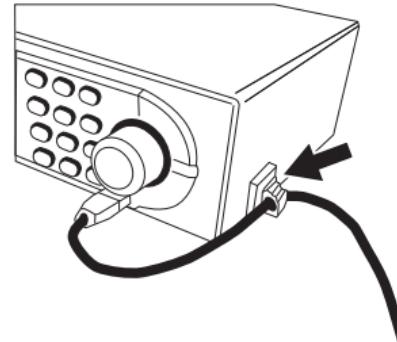
With the unit off, press and hold the following keys and turn on power at the same time: [2], [9] and [HOLD]. You see the reset screen below.

If you turn off power during reset, the process starts again when you next turn on the unit.

All Memory Clear
Please Wait

Using the Cable Clamp

A self-adhesive clamp/guide is provided to assist you to safely route the Remote Cable to your target scanner. Clean the planned location, peel the base covering, and firmly press it on the scanner.



Then route the Remote Cable through the guide. This helps assure that the remote Cable will not come out of the special connector on either a Mobile or Handy scanner.





Specifications

Size (mm)	183 W x 48 D x 56 H (without knobs)
Weight (Remote Head only)	0.31 kg
Input Voltage	13.8 Vdc (11.0 - 16.6 Vdc)
Current Drain (nominal)	In standby: 2 mA In use: 106 mA (backlight high)
Operating Temperature	-20° to +60° C (-4° to +140° F)

ONE YEAR LIMITED WARRANTY

UNIDEN UBC-RH96 Remote Head

IMPORTANT : Evidence of original purchase is required for warranty service.

WARRANTOR : Uniden Australia Pty Limited A.B.N. 58 001 865 498
Uniden New Zealand Limited

Warranty only available in original country of purchase.

ELEMENT OF WARRANTY :

Uniden warrants to the original retail owner for the duration of this warranty, its UNIDEN UBC-RH96 Remote Head (herein after referred to as the Product), to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION:

This warranty to the original retail owner only, shall terminate and be of no further effect ONE (1) year after the date of original retail sale. This warranty will be deemed invalid if the Product is;

(A) Damaged or not maintained as reasonable and necessary,



- (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden,
- (C) Improperly installed,
- (D) Repaired by someone other than an authorized Uniden Repair Agent for a defect or malfunction covered by this warranty,
- (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden, or
- (F) Where the Serial Number label of the product has been removed or damaged beyond recognition. Warranty only valid in the country of original retail/sale.

PARTS COVERED:

This warranty covers for one (1) year, the Product and included accessories.

STATEMENT OF REMEDY:

In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the warrantor at its discretion, will repair the defect or replace the Product and return it to you without charge for parts or service. This warranty does not provide for reimbursement or payment of incidental or consequential damages.

This EXPRESS WARRANTY is in addition to and does not in any

way affect your rights under the TRADE PRACTICES ACT 1974 (Cth) (Australia) or the CONSUMER GUARANTEES ACT (New Zealand).

PROCEDURE FOR OBTAINING PERFORMANCE OR WARRANTY:

In the event that the Product does not conform to this warranty, the Product should be shipped or delivered, freight pre-paid, with evidence of original purchase (e.g. a copy of the sales docket), to the warrantor at:

UNIDEN AUSTRALIA PTY LIMITED LIMITED

SERVICE DIVISION

345 Princes Highway,
Rockdale NSW 2216
Fx(02) 9599 3278
www.uniden.com.au

UNIDEN NEW ZEALAND

SERVICE DIVISION

150 Harris Road, East Tamaki,
Auckland
Fx(09) 274 4253
www.uniden.co.nz

Customers in other States should ship or deliver the Product freight pre-paid to their nearest Uniden Authorized Repair Centre

(Contact Uniden for the nearest Warranty Agent to you).



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